

Patent Number(s): JP52129799-A

Title: Polyester prodn. esp. polyethylene terephthalate with fewer ether gps. - by esterification in presence of e.g. cobalt cpd. and then adding alkoxide of antimony and/or germanium and polycondensing

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Derwent Primary Accession Number: 1977-88840Y [50]

Patents Cited by Inventor: 0

Citing Patents: 1

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

Articles Cited by Examiner: 0

Abstract:

Prodn. of polyester is by esterifying terephthalic acid and ethylene glycol in two steps, continuously followed by subjecting the esterified prod. to polycondensation.

Ethylene glycol and terephthalic acid are mixed in a molar ratio of 1.2-2.0 and the mixture is made into a slurry, which is continuously fed to a first reaction vessel a part of the ethylene glycol being taken out of the bottom of the rectification tower attached to the first reaction vessel so that the molar ratio of ethylene glycol and terephthalic acid in the reaction product in the first reaction vessel is 1.0-1.3. At least part of the liquid thus removed is fed to the second reaction vessel together with the esterified product taken out of the first reaction vessel.

Esterification in the second reaction vessel is with a molar ratio ethylene glycol and terephthalic acid of 1.05-1.3. Esterification is conducted in the presence of 1 Co Mg or Ti cpd. followed by addition of antimony alkoxide and/or germanium alkoxide and polycondensation.

Process allows prodn. of polyethylene terephthalate contg. fewer ether linkages and high whiteness.

International Patent Classification: C08G-063/22

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A06; A02-A07; A02-A07A; A05-E04A

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
JP52129799-A	31 Oct 1977		197750		

Priority Application Information and Date:

JP047444	26 Apr 1976
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